Application No. 10/788,969 Amendment dated July 24, 2006 Reply to Office Action of March 24, 2006

AMENDMENTS TO THE CLAIMS

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- 1. (Original) A cutting tool provided with a tool base composed with tungsten carbide-based cemented carbide or titanium carbonitride-based Cermet, and a hard coating layer provided on the surface of the tool base; wherein the hard coating layer comprises:
- (a) at least one of a Ti compound and a Zr compound layer, which is a lower layer, comprising at least one layer of a Ti carbide layer, Ti nitride layer, Ti carbonitride layer, Ti oxicarbide layer, Ti oxicarbonitride layer, Zr carbide layer, Zr nitride layer, Zr carbonitride layer, Zr oxicarbide layer and Zr oxicarbonitride layer formed by chemical vapor deposition, and having an overall mean layer thickness of 0.5-20 μ m, and
- (b) an aluminum oxide layer having an α crystal structure in the state of being formed by chemical vapor deposition, which is an upper layer, comprising the highest peak in the inclination section within a range of 0-10 degrees in the case of emitting an electron beam onto individual crystal grains having a hexagonal crystal lattice present within the measuring range of the surface polishing plane, measuring the inclination of the (0001) crystal plane of the crystal grains relative to the normal of the surface polishing plane using a field emission scanning electron microscope, dividing the measured inclinations within a range of 0-45 degrees indicated by the individual crystal grains for each pitch of 0.25 degrees, and preparing a pole plot graph by tabulating the measured inclinations present in each section for each section, and having the mean layer thickness is 1-30 μ m.

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- 2. (Original) A cutting tool according to claim 1, wherein the hard coating layer has an aluminum oxide core thin layer containing an aluminum oxide core between the lower layer and the upper layer.
- 3. (Currently Amended) A cutting tool according to claim [[1]]2, wherein the mean layer thickness of the aluminum oxide core thin layer is 20-200 nm.

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4. (Canceled)